CODE NUMBERS

CODE NUMBERS	Displacement [cm³]					Technical data – Page	Shaft loads – Page	Dimensions – Page
	315	400	500	630	800			
151B	3100	3101	3102	3103	3104	60	63	72
151B	2150	2151	2152	2153	2154	60	63	73
151B	3105	3106	3107	3108	3109	60	63	72
151B	2155	2156	2157	2158	2159	60	63	73
151B	3110	3111	3112	3113	3114	60	63	72
151B	2160	2161	2162	2163	2164	60	63	73
151B	2183	2184	2185	2186	2187	60	64	74
151B	2188	2189	2190	2191	2192	60	64	74
151B	3115	3116	3117	3118	3119	60	63	75
151B	3120	3121	3122	3123	3124	60	63	75
151B	2170	2171	2172	2173	2174	60	63	76
151B	3125	3126	3127	3128	3129	60	–	77
	65	65	66	66	67			

Ordering
Add the four digit prefix "151B" to the four digit numbers from the chart for complete code number.

Example:
151B3101 for an OMV 400 with standard flange, cyl. 50 mm shaft and port size G 1.

Note: Orders will not be accepted without the four digit prefix.

TECHNICAL DATA FOR OMV, OMVW AND OMVS

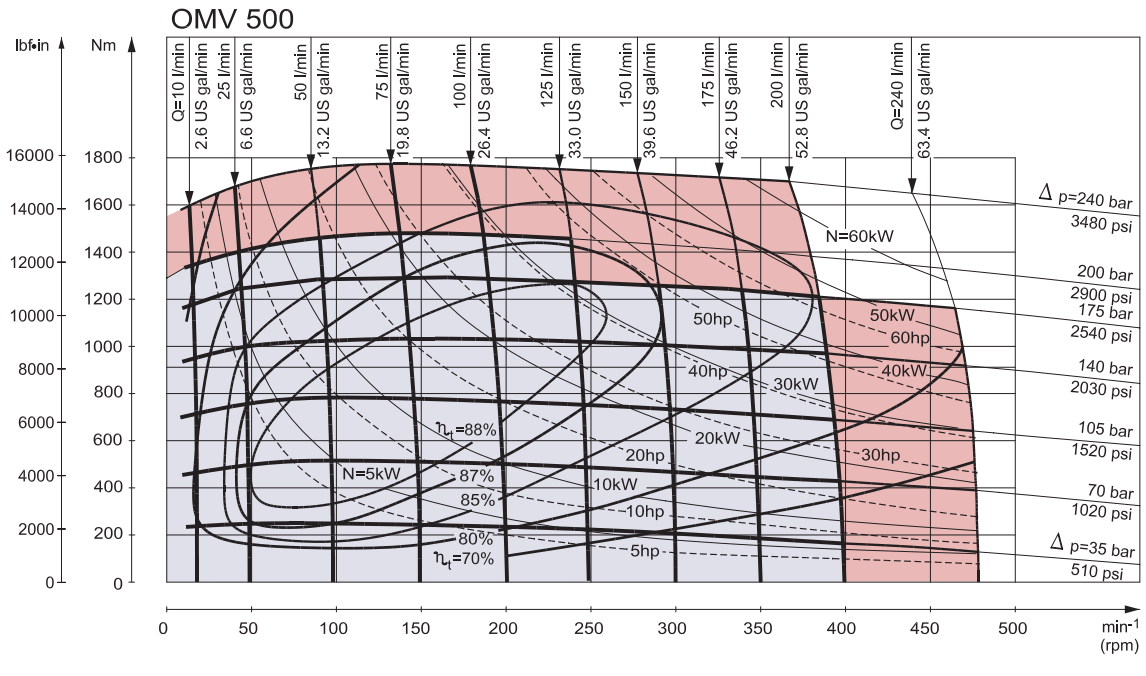
Type			OMV OMVW OMVS	OMV OMVW OMVS	OMV OMVW OMVS	OMV OMVW OMVS	OMV OMVW OMVS
Motor size			**315**	**400**	**500**	**630**	**800**
Geometric displacement	cm^3 [in^3]		314.5 [19.19]	400.9 [24.46]	499.6 [30.49]	629.1 [38.39]	801.8 [48.93]
Max. speed	min^{-1} [rpm]	cont.	510	500	400	315	250
		int.[1]	630	600	480	380	300
Max. torque	Nm [lbf·in]	cont.	920 [8140]	1180 [10440]	1460 [12920]	1660 [14690]	1880 [16640]
		int.[1]	1110 [9820]	1410 [12480]	1760 [15580]	1940 [17170]	2110 [18680]
Max. output	kW [hp]	cont.	42.5 [57.0]	53.5 [71.7]	53.5 [71.7]	48.0 [64.4]	42.5 [57.0]
		int.[1]	51.0 [68.4]	64.0 [85.8]	64.0 [85.8]	56.0 [75.1]	48.0 [64.4]
Max. pressure drop	bar [psi]	cont.	200 [2900]	200 [2900]	200 [2900]	180 [2610]	160 [2320]
		int.[1]	240 [3480]	240 [3480]	240 [3480]	210 [3050]	180 [2610]
		peak[2]	280 [4060]	280 [4060]	280 [4060]	240 [3480]	210 [3050]
Max. oil flow	l/min [USgal/min]	cont.	160 [42.3]	200 [52.8]	200 [52.8]	200 [52.8]	200 [52.8]
		int.[1]	200 [52.8]	240 [63.4]	240 [63.4]	240 [63.4]	240 [63.4]
Max. starting pressure with unloaded shaft	bar [psi]		8 [116]	8 [116]	8 [116]	8 [116]	8 [116]
Min. starting torque	at max. press. drop cont. Nm [lbf·in]		710 [6280]	910 [8050]	1130 [10000]	1330 [11770]	1510 [13360]
	at max. press. drop int.[1] Nm [lbf·in]		850 [7520]	1090 [9650]	1360 [12040]	1550 [13720]	1700 [15050]

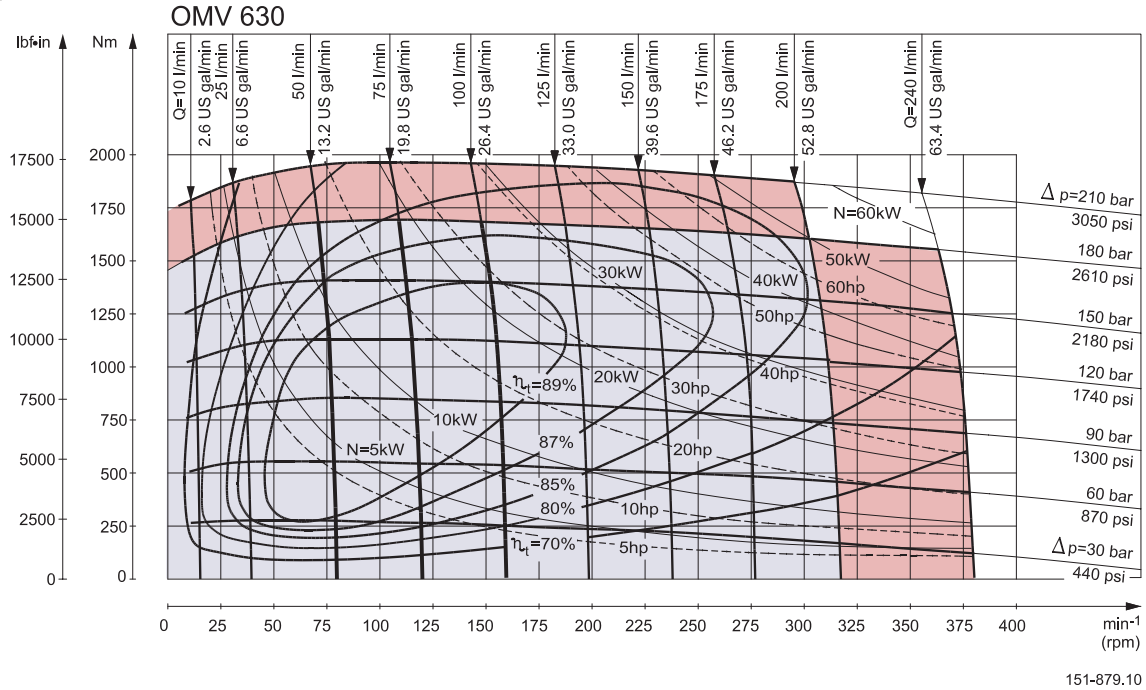
Type			Max. inlet pressure	Max. return pressure with drain line
OMV OMVW OMVS	bar [psi]	cont.	210 [3050]	140 [2030]
	bar [psi]	int.[1]	250 [3630]	175 [2540]
	bar [psi]	peak[2]	300 [4350]	210 [3050]

[1] Intermittent operation: the permissible values may occur for max. 10% of every minute.
[2] Peak load: The permissible values may occur for max. 1% of every minute.

For max. permissible combination of flow and pressure, see function diagram for actual motor.

FUNCTION DIAGRAMS





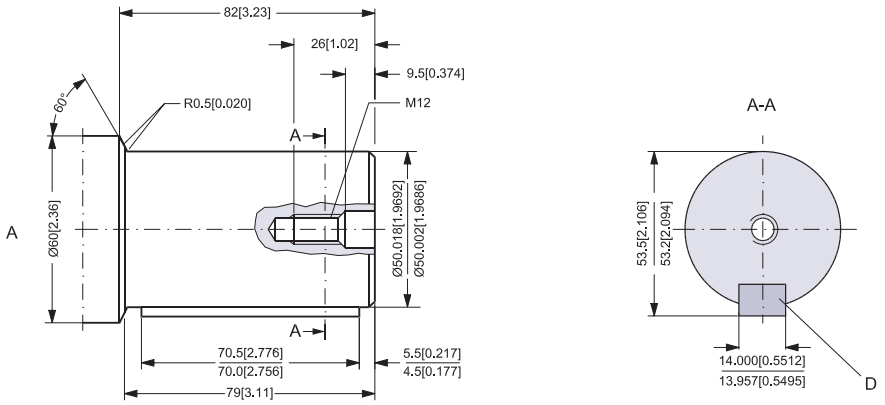
Explanation of function diagram use, basis and conditions can be found on page 5.

- Continuous range
- Intermittent range (max. 10% operation every minute)

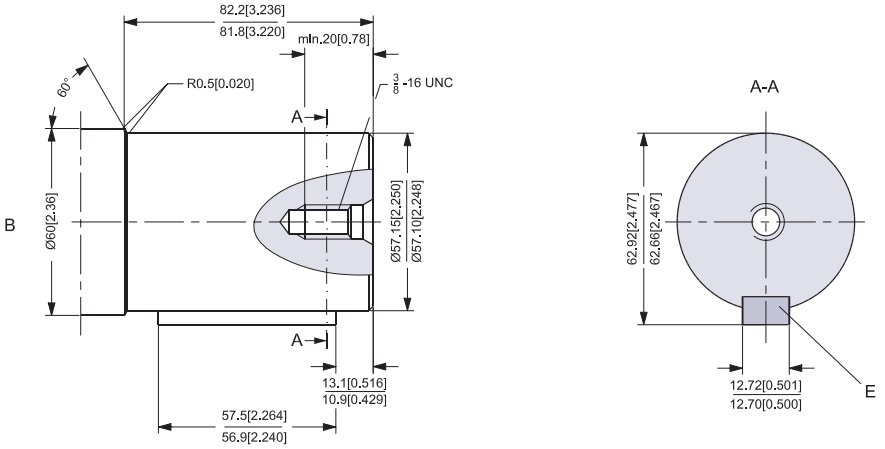
Note: Intermittent pressure drop and oil flow must not occur simultaneously.

SHAFT VERSION

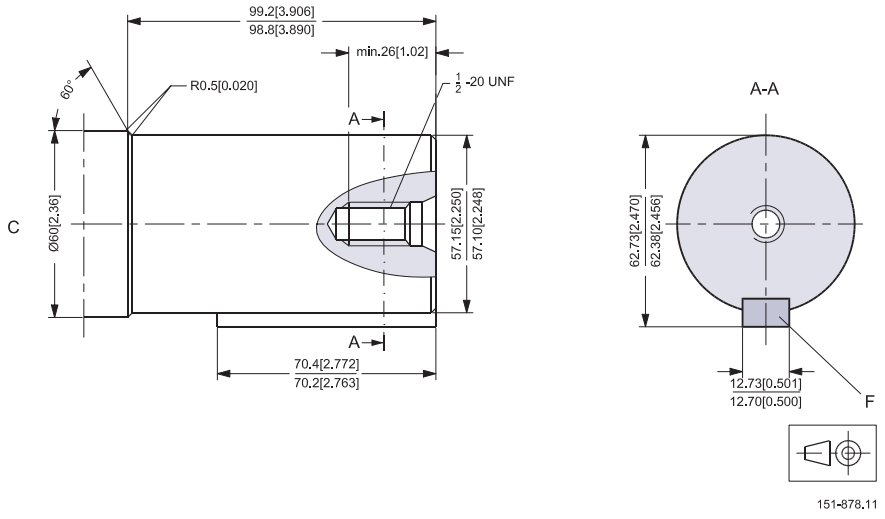
A: Cylindrical 50 mm shaft
D: Parallel key
A14 × 9 × 70
DIN 6885



B: Cylindrical 2.25 in shaft for OMV with standard mounting flange
E: Parallel key
$^1/_2 \times {}^1/_2 \times 2^1/_4$ in
B.S. 46

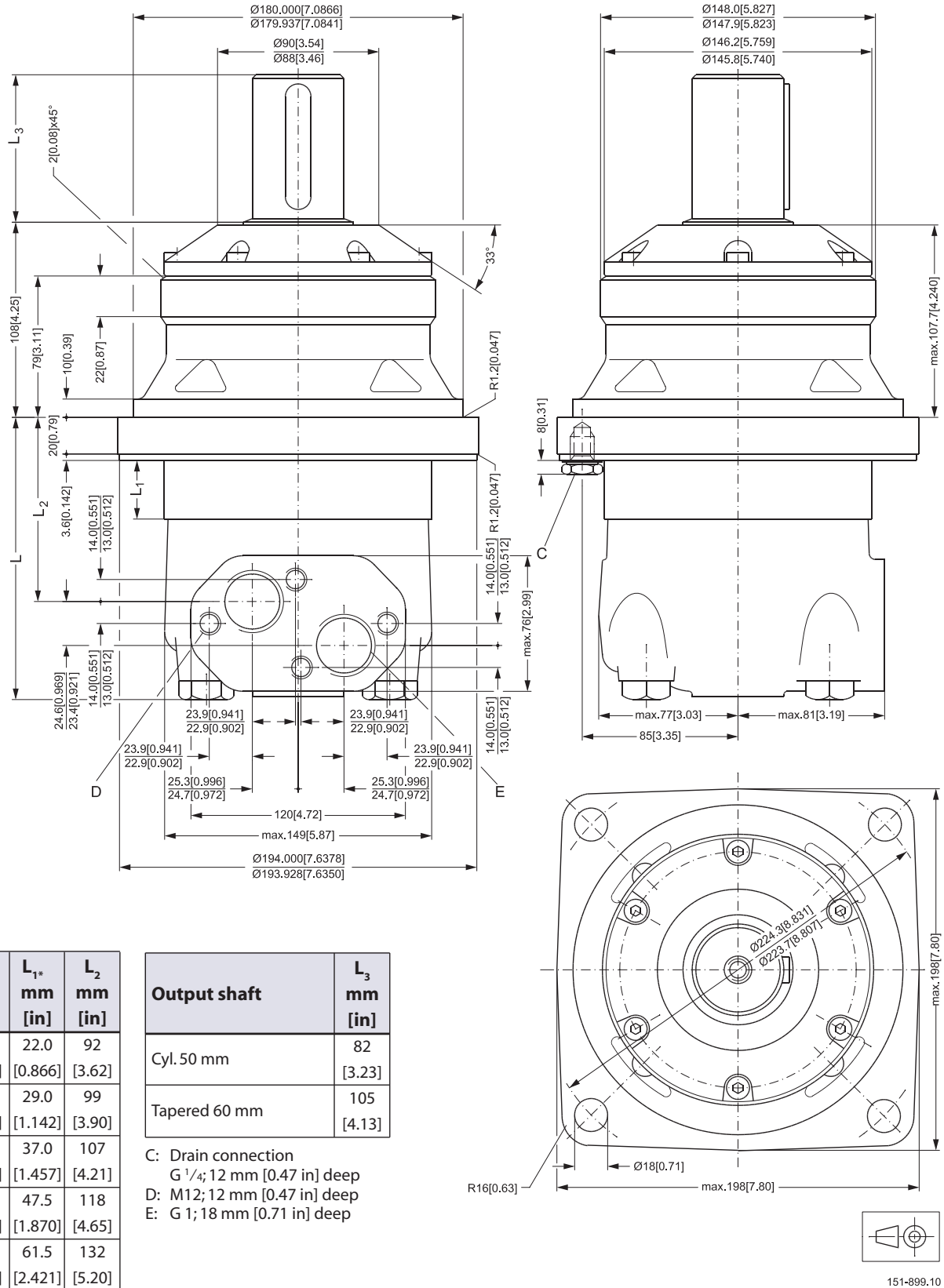


C: Cylindrical 2.25 in shaft for OMV with mounting flange SAE-C
F: Parallel key
$^1/_2 \times {}^1/_2 \times 2^1/_4$ in
B.S. 46



Dimensions – European version

WHEEL



Type	$L_{max.}$ mm [in]	L_{1*} mm [in]	L_2 mm [in]
OMVW 315	146 [5.75]	22.0 [0.866]	92 [3.62]
OMVW 400	153 [6.02]	29.0 [1.142]	99 [3.90]
OMVW 500	161 [6.34]	37.0 [1.457]	107 [4.21]
OMVW 630	172 [6.77]	47.5 [1.870]	118 [4.65]
OMVW 800	185 [7.28]	61.5 [2.421]	132 [5.20]

Output shaft	L_3 mm [in]
Cyl. 50 mm	82 [3.23]
Tapered 60 mm	105 [4.13]

C: Drain connection G 1/4; 12 mm [0.47 in] deep
D: M12; 12 mm [0.47 in] deep
E: G 1; 18 mm [0.71 in] deep

*) The gearwheel set is 3.5 mm [0.138 in] wider across the rollers than the L_1 dimensions

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